## Figure $57a - \text{Leu } 63 \rightarrow \text{C } \beta$ chain

# Figure 57b Leu 63 $\rightarrow$ C $\beta$ chain

M				
N-AGVTOTPKF	QVLKTGQSMT	LQCAQDMNHE	YMSWYRQDPG	MGLRLIHYSV
'GAGTTDOGEV	PNGYNVSRST	TEDFPLRLLS	AAPSQTSVYF	CASRPGLAGG
RPEOYFGPGT	RLTVTEDLKN	VFPPEVAVFE	PSEAEISHTQ	KATLVCLATG
FYPDHVELSW	WVNGKEVHSG	VSTDPQP <u>C</u> KE	QPALNDSRYA	LSSRLRVSAT
FWODPRNHFR	CQVQFYGLSE	NDEWTQDRAK	PVTQIVSAEA	WGRAD*

# Figure $58a - Glu\ 15 \rightarrow C\ \beta$ chain

atgaacgctggtgtcactcagaccccaaaattccaggtcctgaagacaggacaga
gcatgacactgcagtgtgcccaggatatgaaccatgaatacatgtcctggtatcg
acaagacccaggcatggggctgaggctgattcattactcagttggtgctggtatc
actgaccaaggagaagtccccaatggctacaatgtctccagatcaaccacagagg
atttcccgctcaggctgctgctgctgctccctcccagacatctgtgtacttctg
tgccagcaggccgggactagcgggagggcgaccagagcagtacttcgggccgggc
accaggctcacggtcacagaggacctgaaaaacgtgttcccacccgaaggtcgctg
tgttttgtccatcagaagcagagatctcccacacccaaaaggccacactggtgtg
cctggccacaggcttctaccccgaccacgtggagctgagctggtggtgaatggg
aaggaggtgcacagtggggtcagcacagacccgcagccctcaaggagcagccg
cctcaatgactccagatacgctctgagcagccgcctgagggtctccggccacctt
ctggcaggacccccgcaaccacttccgctgtcaagtccagttctacgggctctcg
gagaatgacgggtgaaccaggataggccaaacccgtcacccagatcgtcagc
ccgaggcctggggtagagcagaactaa

# Figure 58b Glu 15→C β chain

```
M
N<sub>1</sub>AGVTQTPKF QVLKTGQSMT LQCAQDMNHE YMSWYRQDPG MGLRLIHYSV
GAGITDQGEV PNGYNVSRST TEDFPLRLLS AAPSQTSVYF CASRPGLAGG
RPEQYFGPGT RLTVTEDLKN VFPPEVAVFC PSEAEISHTQ KATLVCLATG
FYPDHVELSW WVNGKEVHSG VSTDPQPLKE QPALNDSRYA LSSRLRVSAT
FWQDPRNHFR CQVQFYGLSE NDEWTQDRAK PVTQIVSAEA WGRAD*
```

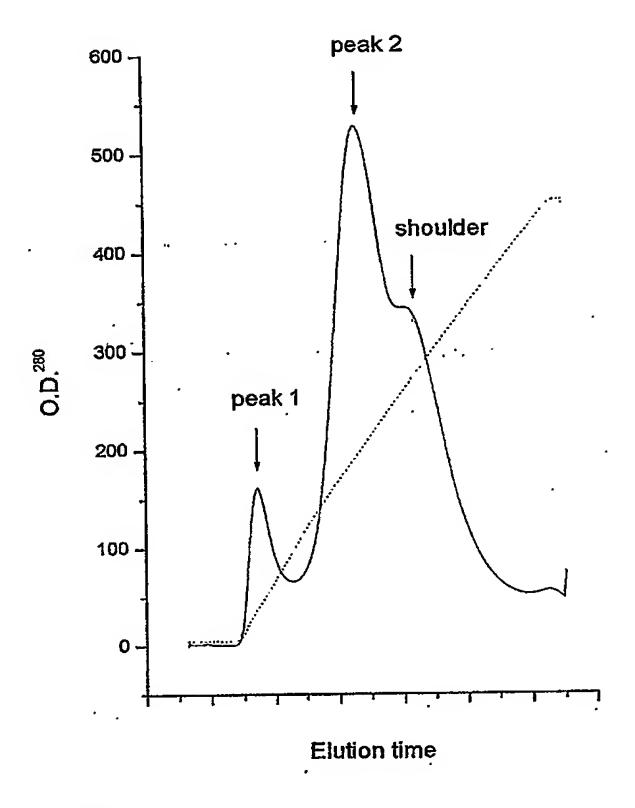


Figure 59: AE column Thr48/Ser57

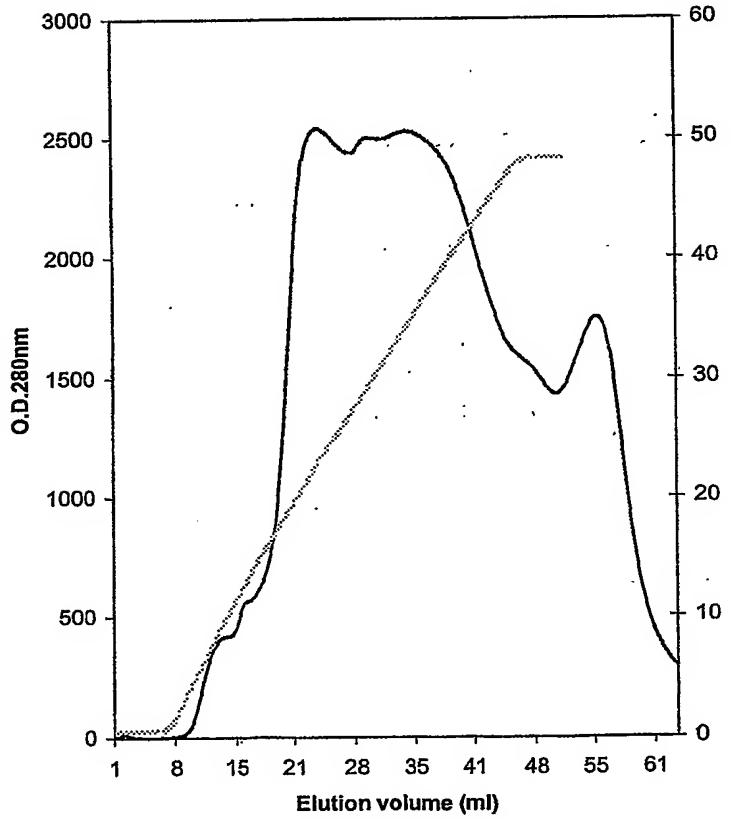


Figure 60: AE column Thr45/Ser77

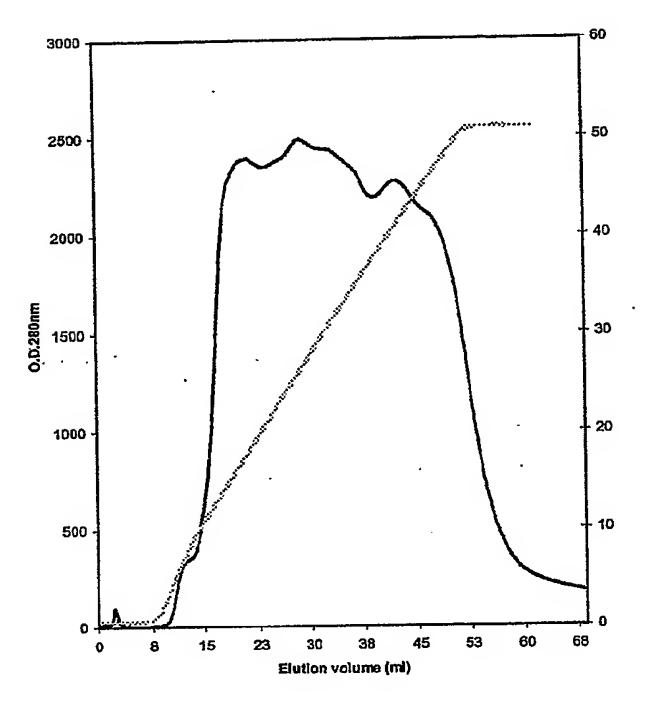
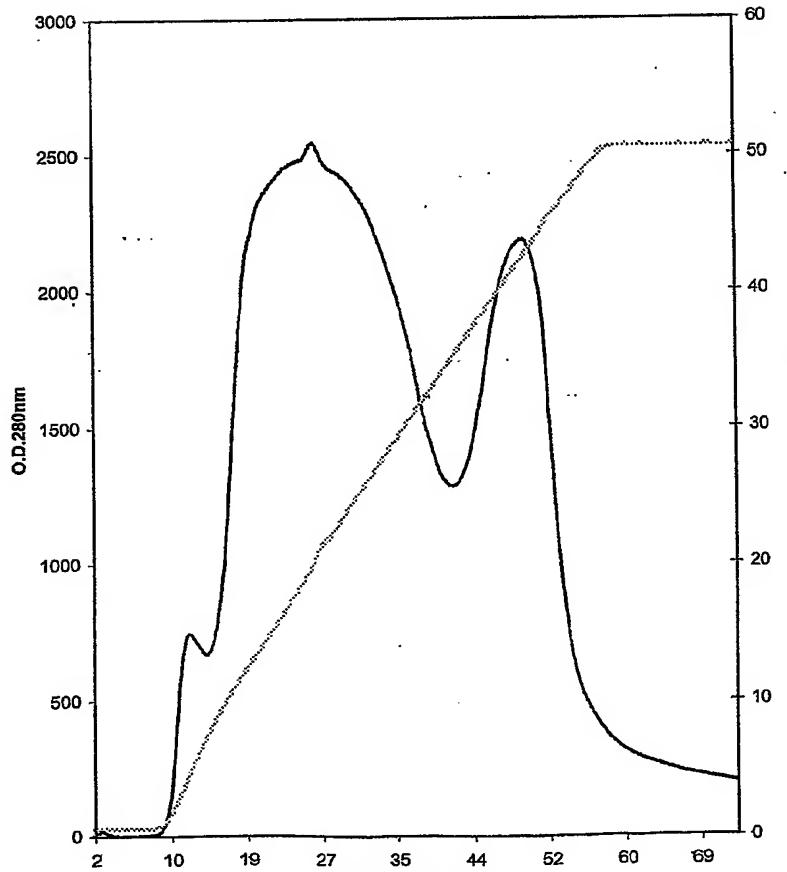


Figure 61: AE column Tyr10/Ser17



Elution volume (ml)

Figure 62: AE column Thr45/Asp59

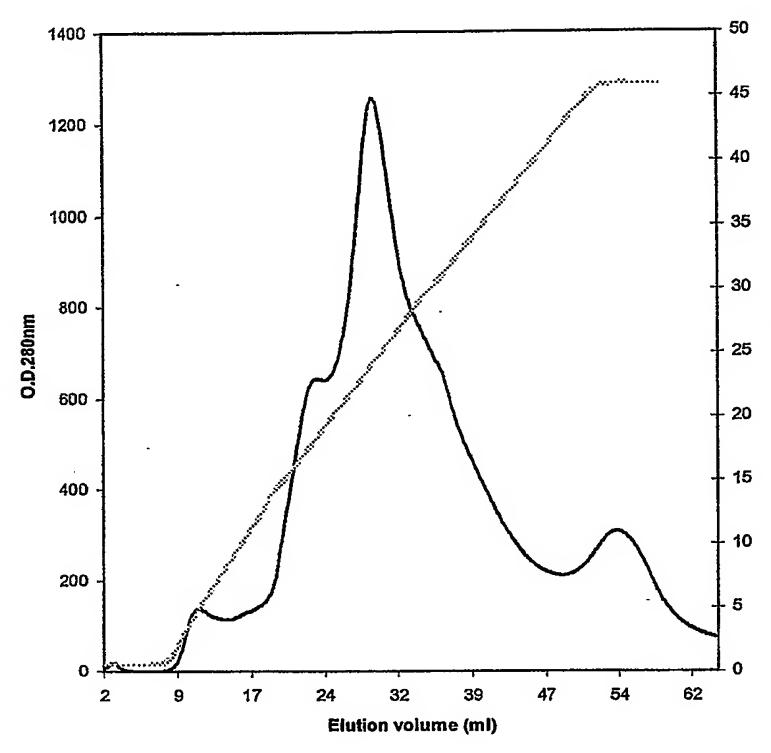


Figure 63: AE column Met52/Gly55

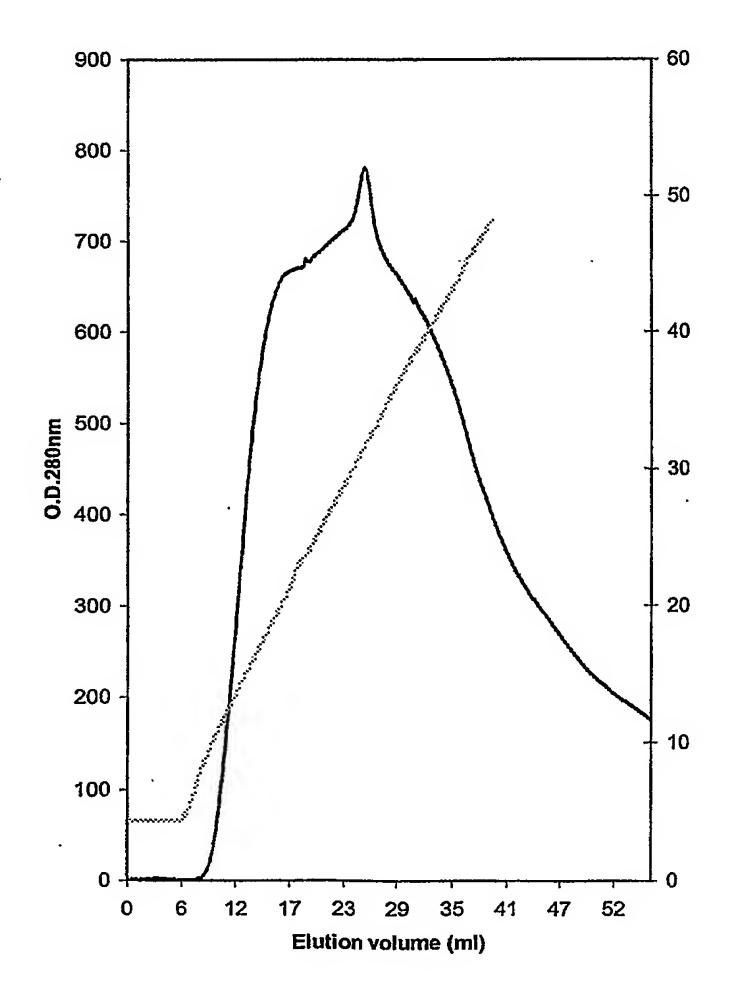


Figure 64: AE column Ser15/Glu15

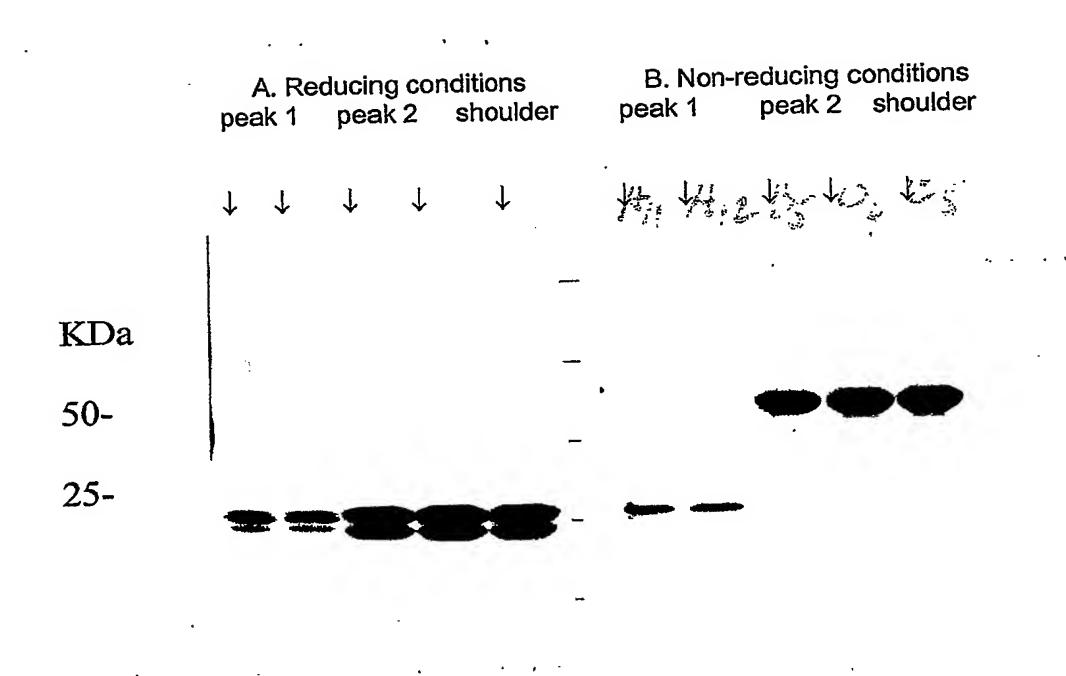


Figure 65: SDS PAGE Thr 48 / Ser 57

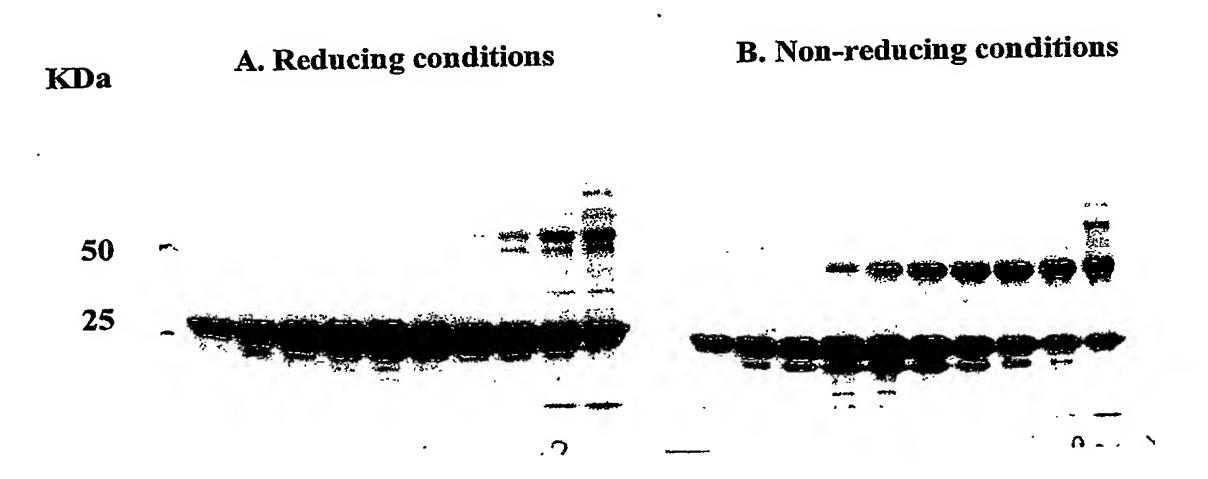


Figure 66: SDS PAGE Thr 45 / Ser 77

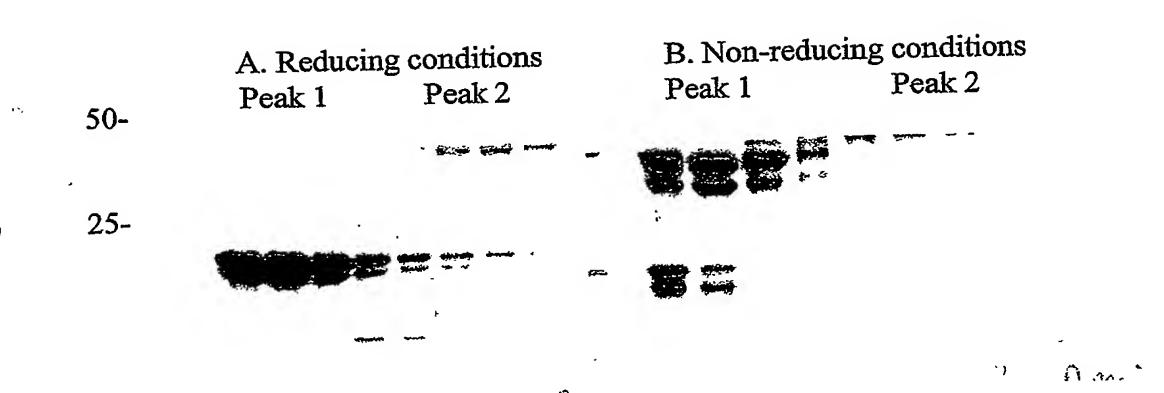


Figure 67 SDS PAGE Tyr 10 / Ser 17

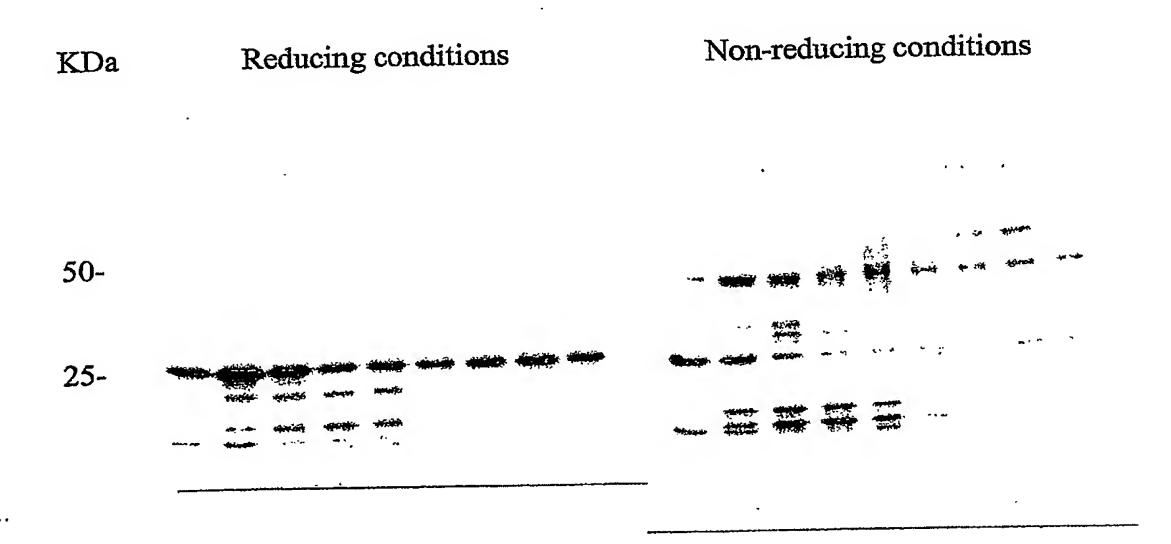


Figure 68 SDS PAGE Thr 45 / Asp 59

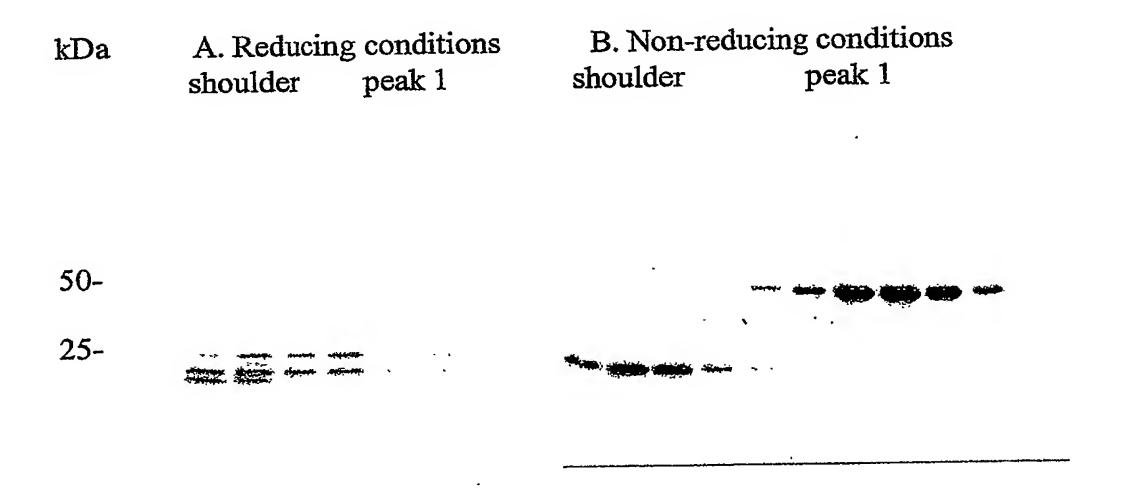


Figure 69: SDS PAGE Met52/Gly55

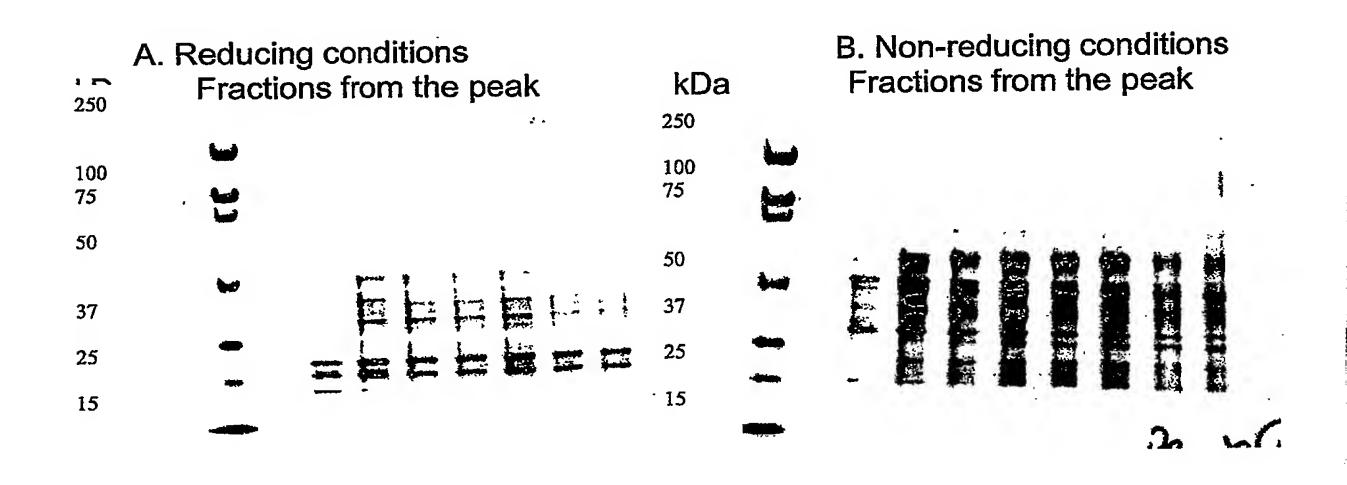


Figure 70: SDS PAGE Ser 15/Glu 15

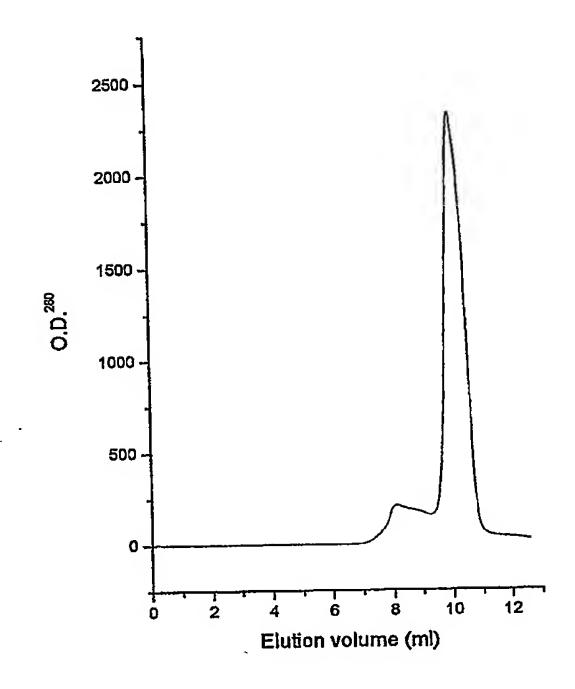


Figure 71: SEC Thr48/Ser57

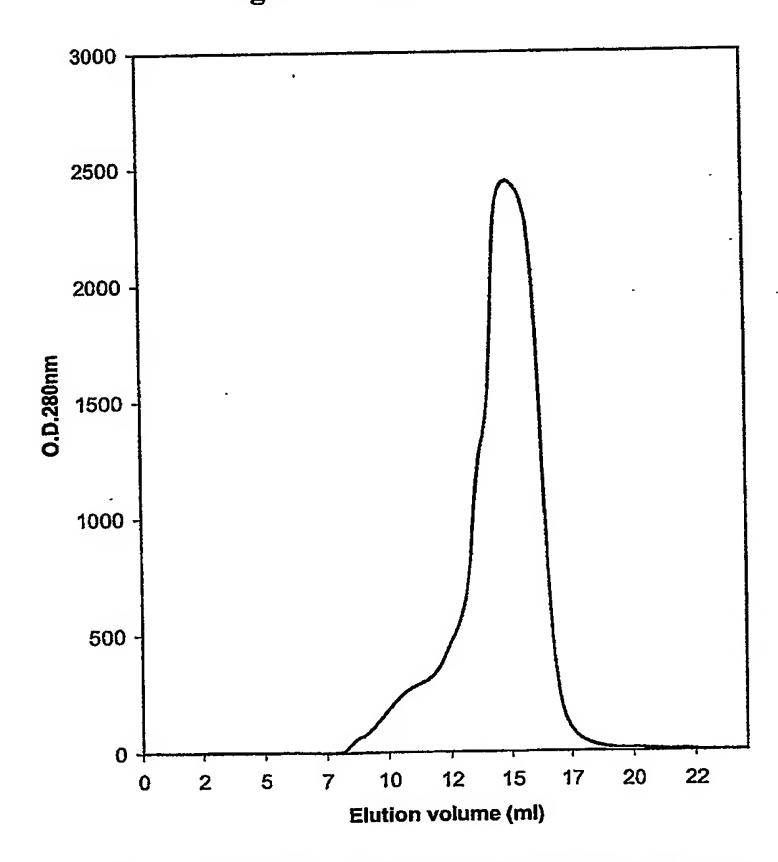


Figure 72: SEC Thr45/Ser77 (200 HR column)

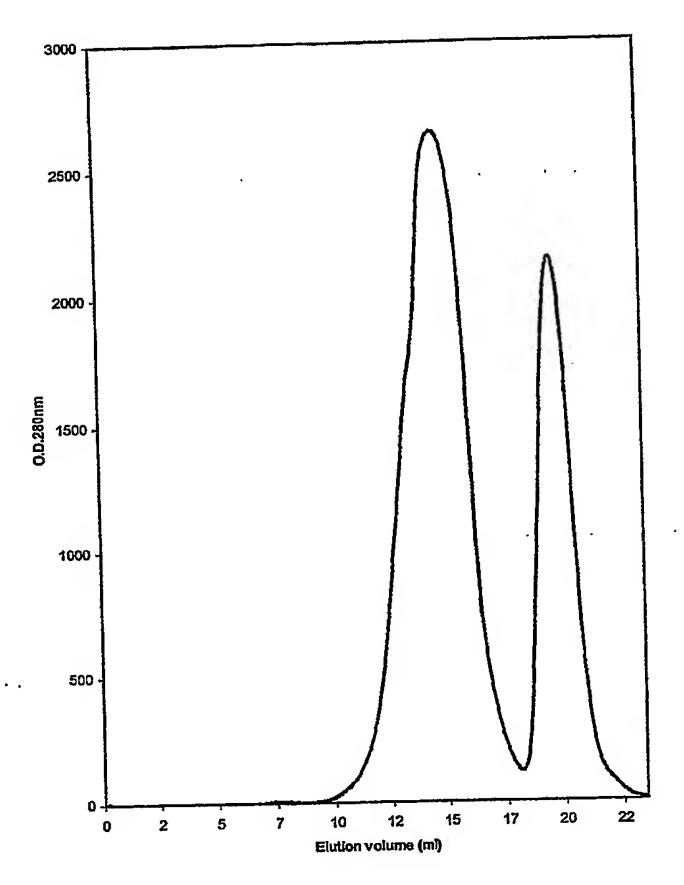


Figure 73: SEC Tyr 10 / Ser 17 (200 HR Column)

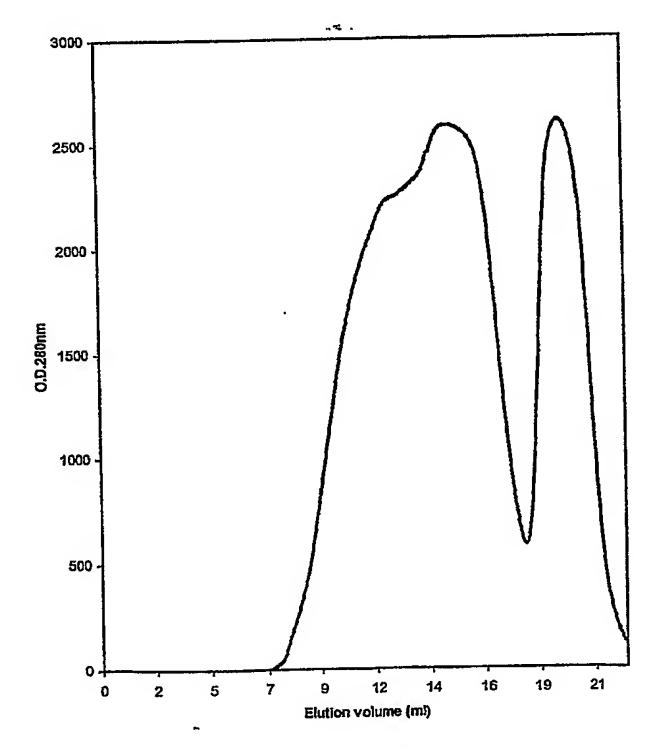


Figure 74: SEC Thr 45/Asp 59 (200 HR Column)

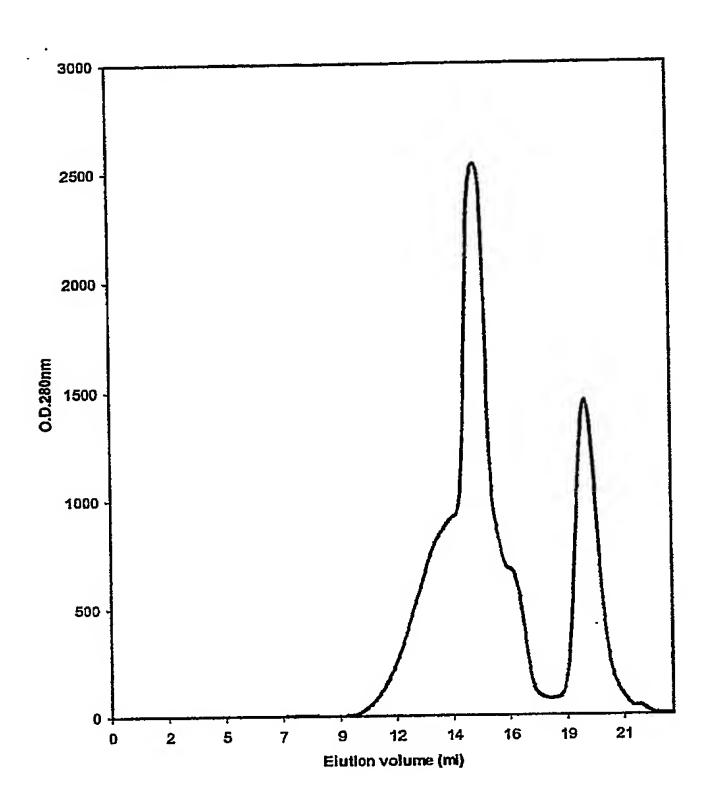


Figure 75 SEC Met 52 / Gly 55 (200 HR Column)

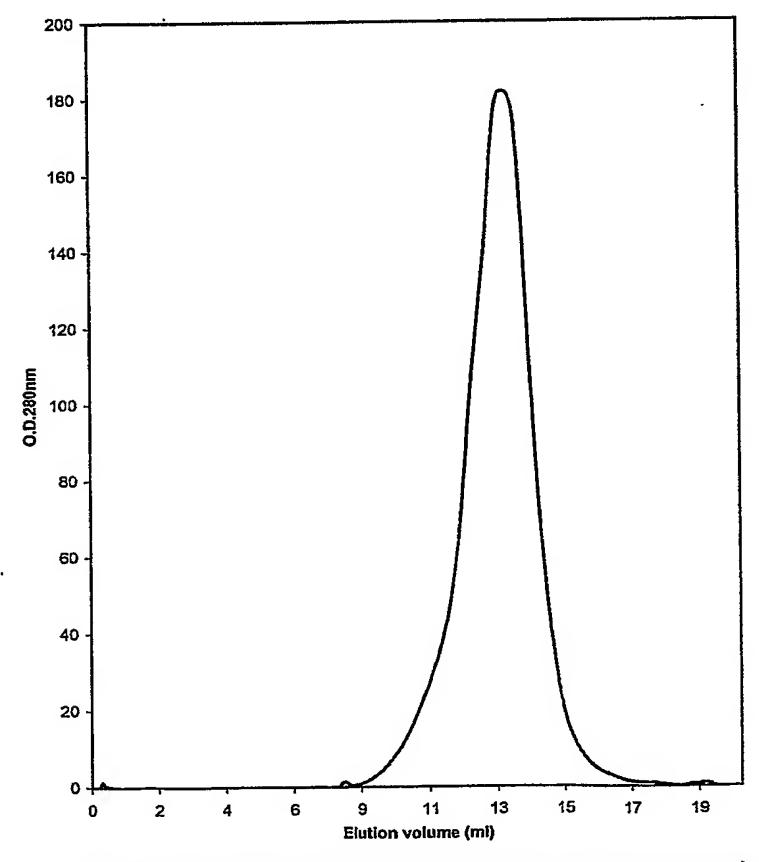


Figure 76: SEC Ser 15/Glu 15 (200 HR Column)

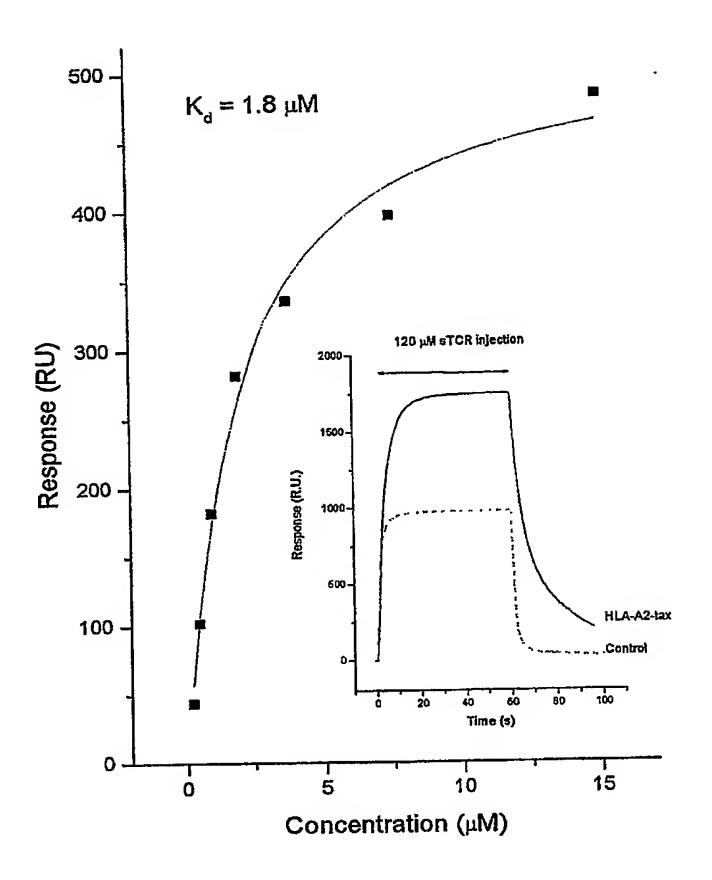


Figure 77: Thr 48/Ser 57

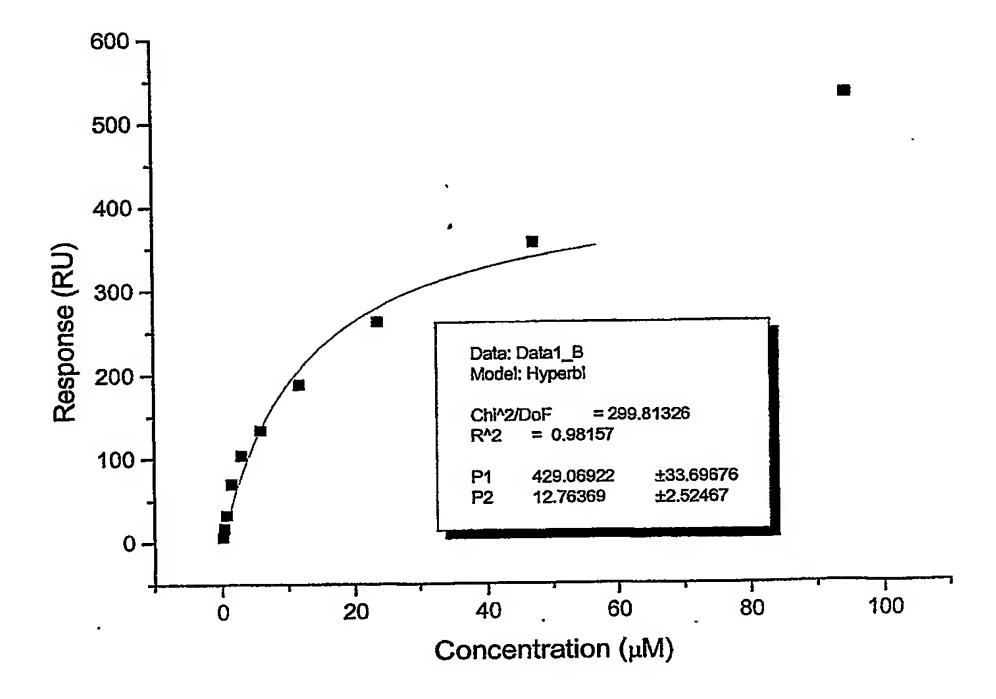


Figure 78: Thr 45/Ser 77

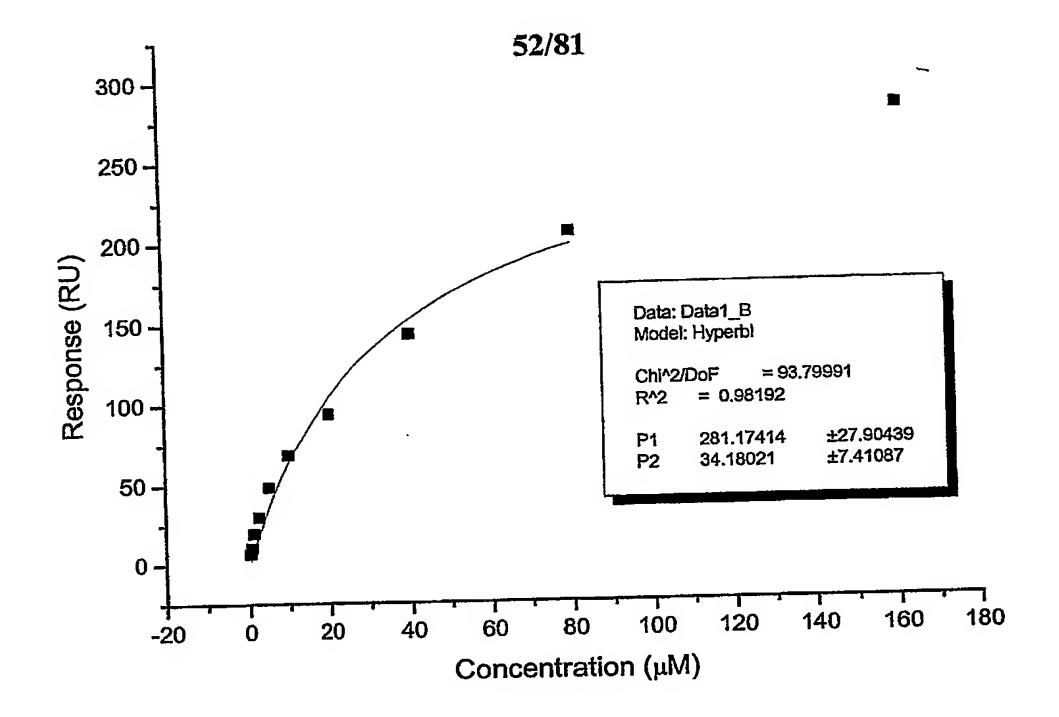


Figure 79: Tyr 10/Ser 17

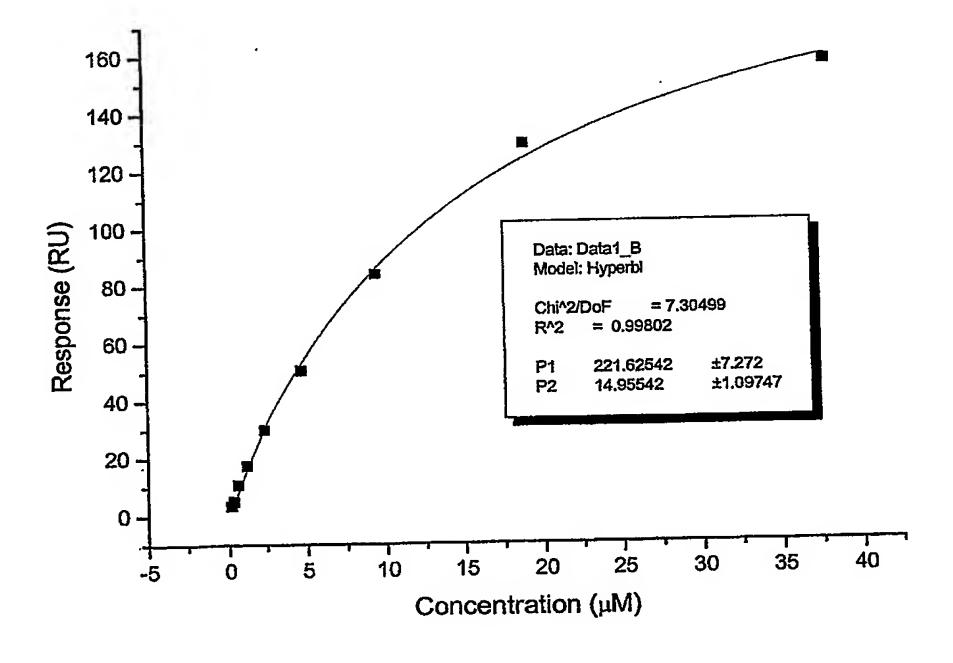


Figure 80: Thr 45/Asp 59

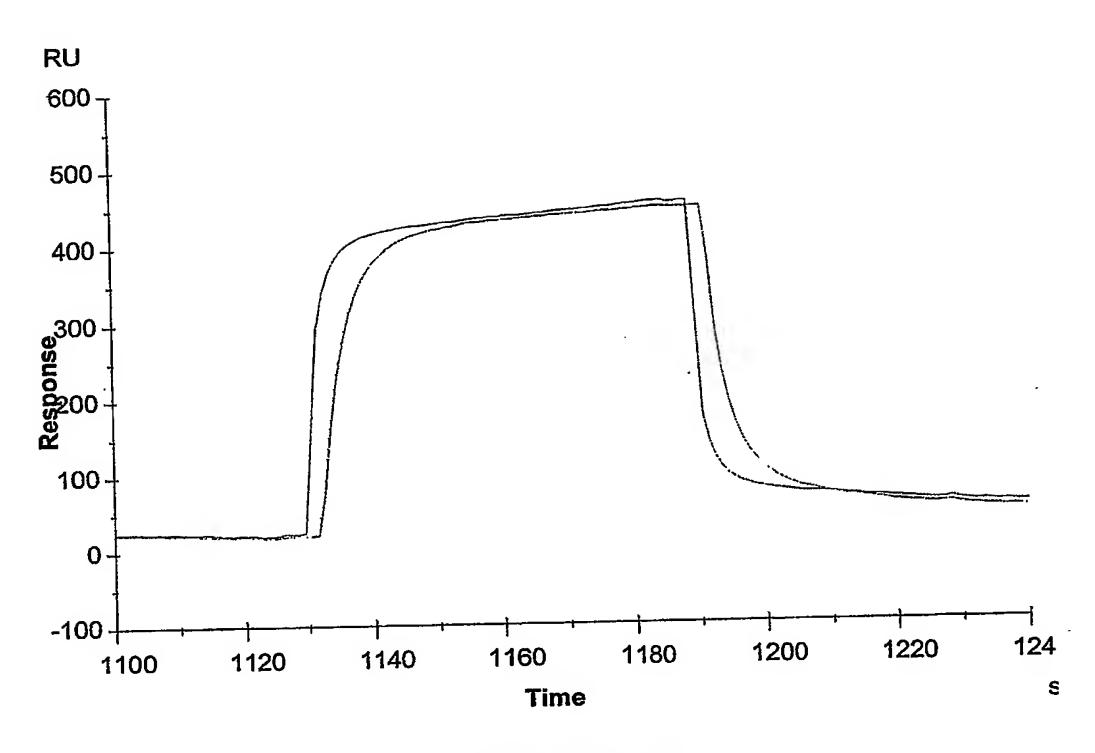


Figure 81: Met 52/Gly 55

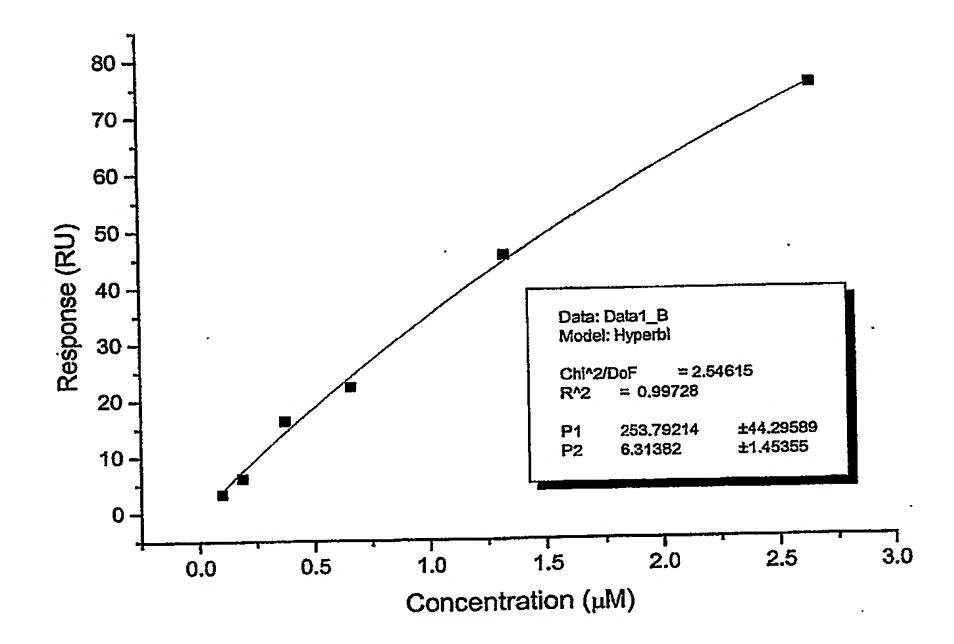


Figure 82: Ser 15/Glu 15

Figure 83a

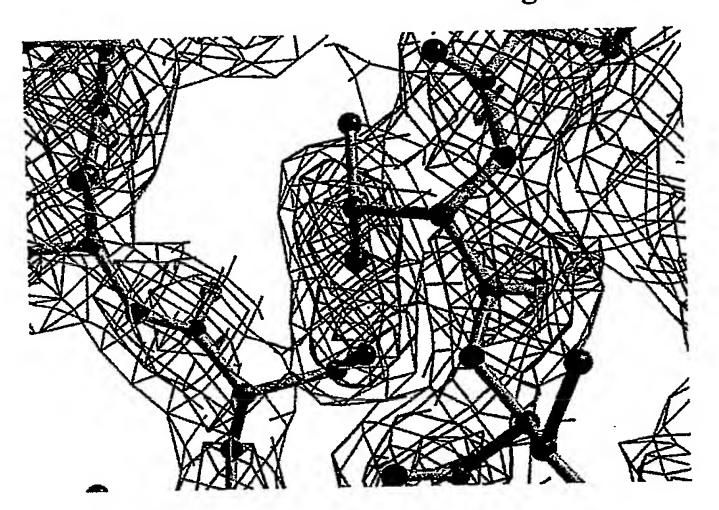
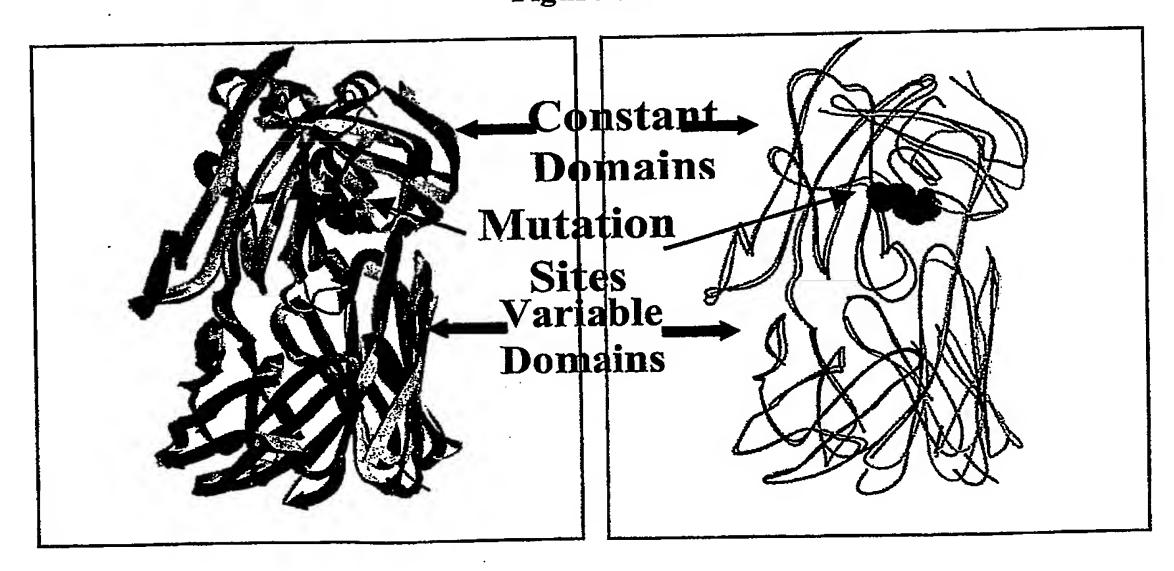


Figure 83b



Figure 84



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### Figure 85a

## Figure 85b

M G V T Q T P K F Q V L K T G Q S M T L Q C A Q D M N H E Y M S W Y R Q D P G M G L R L I H Y S V G A G I T D Q G E V P N G Y V G N V S R S T T E D F P L R L L S A A P S Q T S V Y F C A S S Y V G F E P S E A E I S H T Q K A T L V L E D L K N V F P P E V A V F E A L S W W V N G K E V H S G V C T D P Q P L K E Q P A L N D S R Y A L S S R L R V S A T F W Q D P R N H F R C Q V Q F Y G L S E N D E W T Q D R A K P V T Q I V S A E A W G R A D G S G G G

## Figure 86a

### Figure 86b

M G V T Q T P K F Q V L K T G Q S M T L Q C A Q D M N H E Y M S W Y R Q D P G M G L R L I H Y S V G A G I T D Q G E V P N G Y N V S R S T T E D F P L R L L S A A P S Q T S V Y F C A S S Y V G A G N T G F Y P D H V E L S W W V N G K E V H S G V C T D P Q P L K E Q P A L N D S R Y A L S S R L R V S A T F W Q D P R N H F R C Q V Q F Y G L S E N D E W T Q D R A K P V T Q I V S A E A W G R A D G S G G G

Figure 87

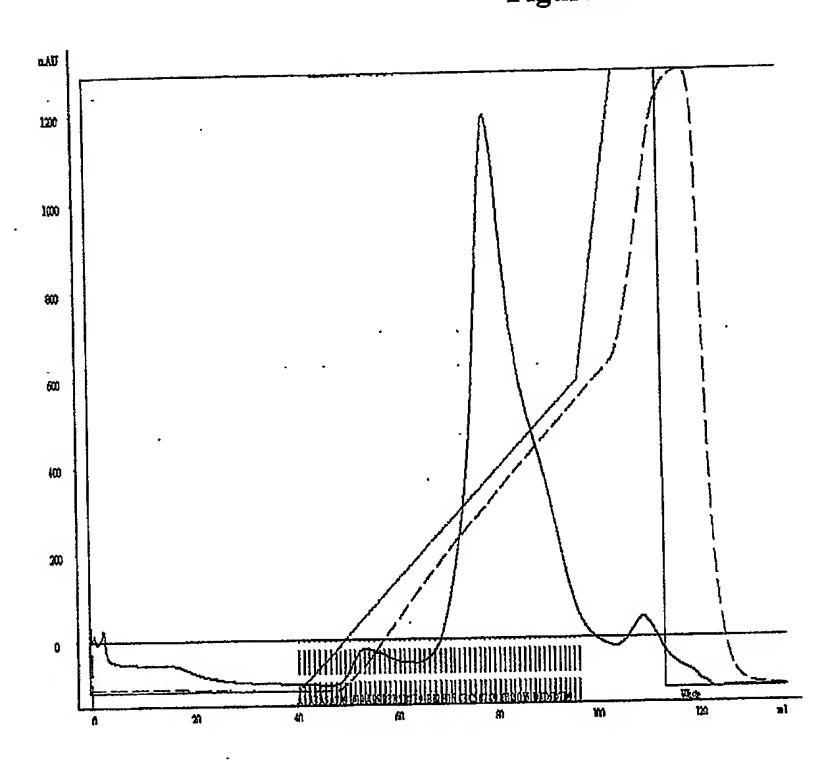


Figure 88

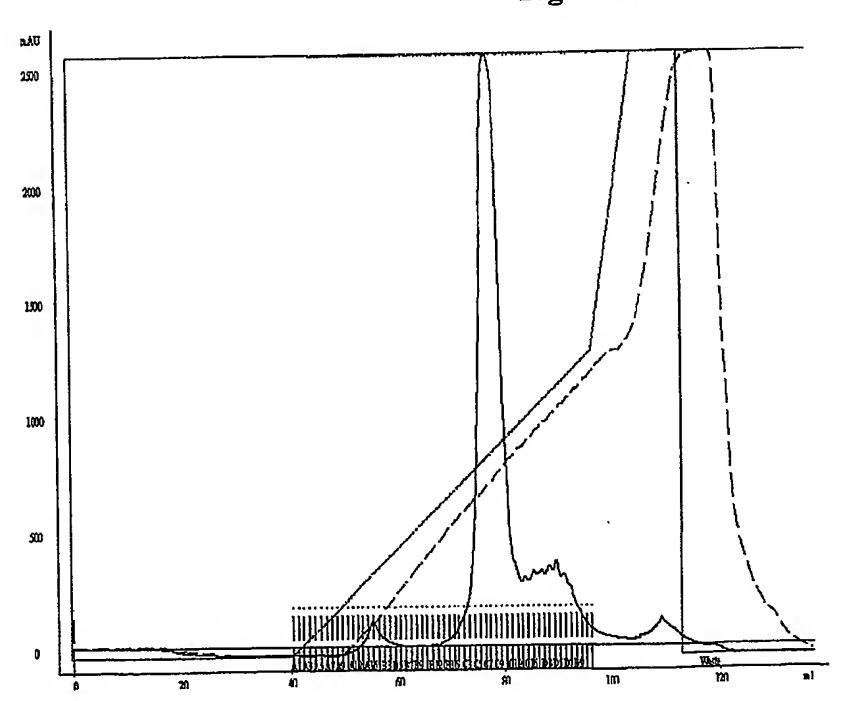


Figure 89

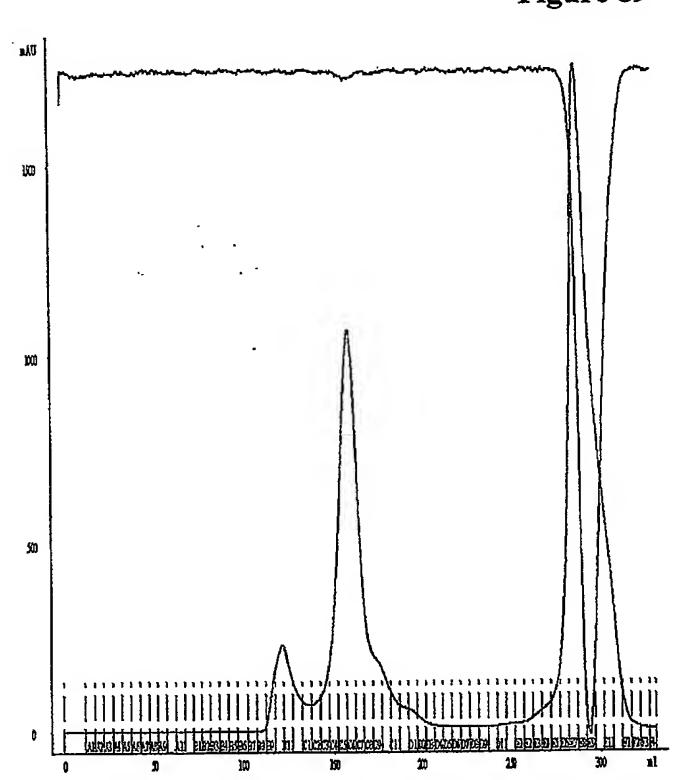
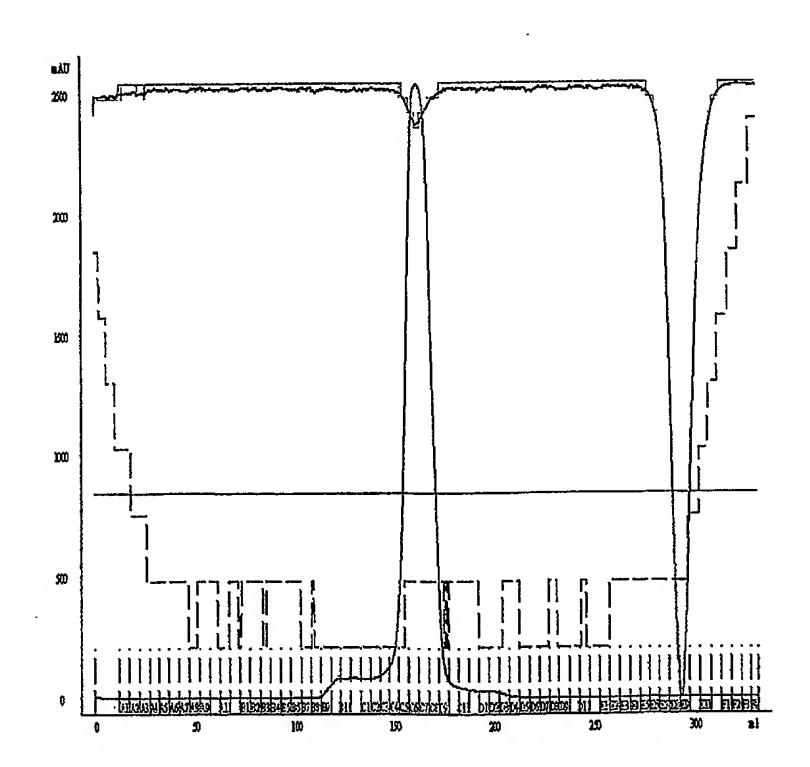


Figure 90



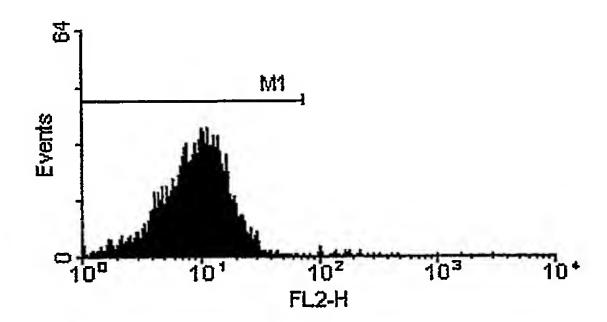


Figure 91a. PP LCL NYESO 0 TCR 5µg

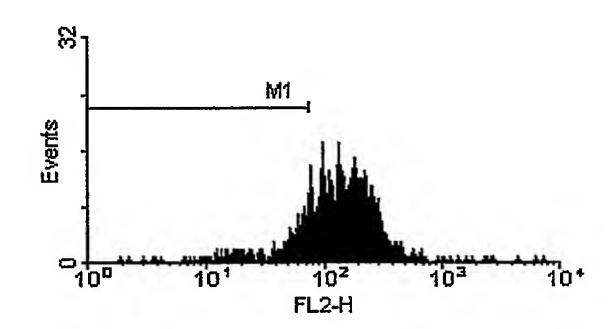


Figure 91b.PP LCL NYESO 10<sup>-4</sup>M TCR 5µg

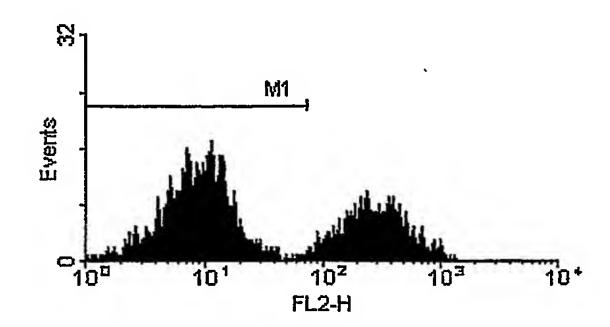


Figure 91c.PP LCL NYESO  $10^{-5}M$  TCR  $5\mu g$ 

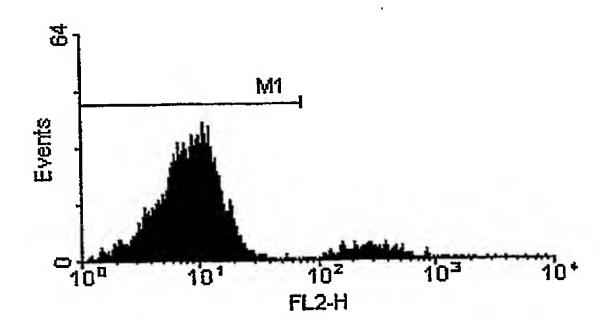


Figure 91d. PP LCL NYESO 10-6M TCR 5µg

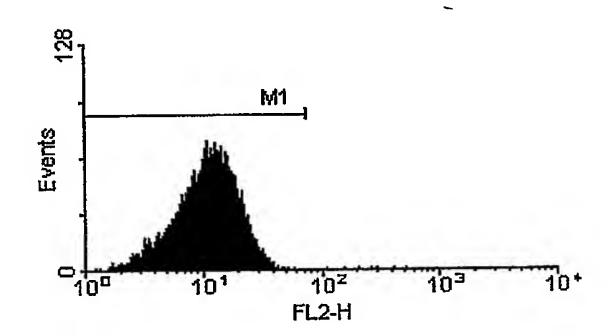


Figure 91e. PP LCL NYESO 0 TCR 10µg

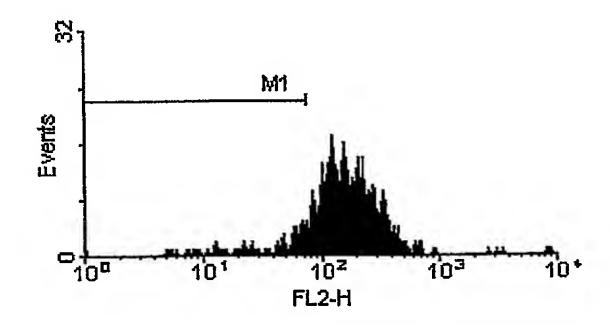


Figure 91f. PP LCL NYESO 10<sup>-4</sup>M TCR 10µg

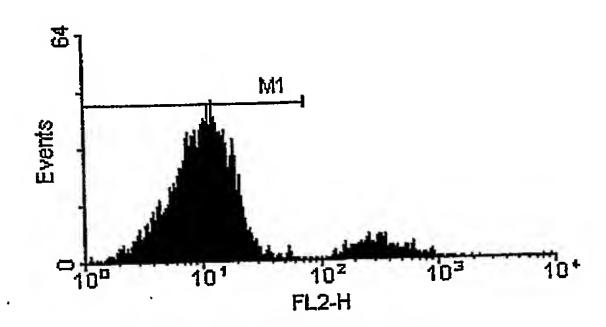


Figure 91g. PP LCL NYESO 10<sup>-5</sup>M TCR 10μg

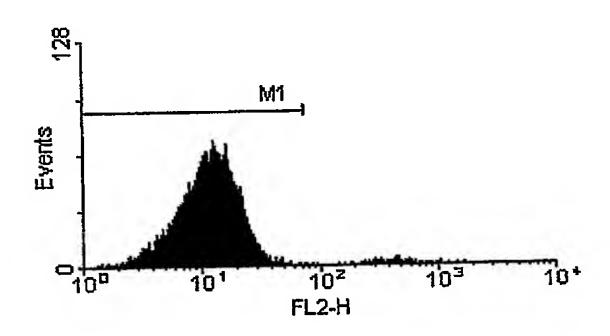


Figure 91h. PP LCL NYESO 10-6M TCR 10μg

Figure 92

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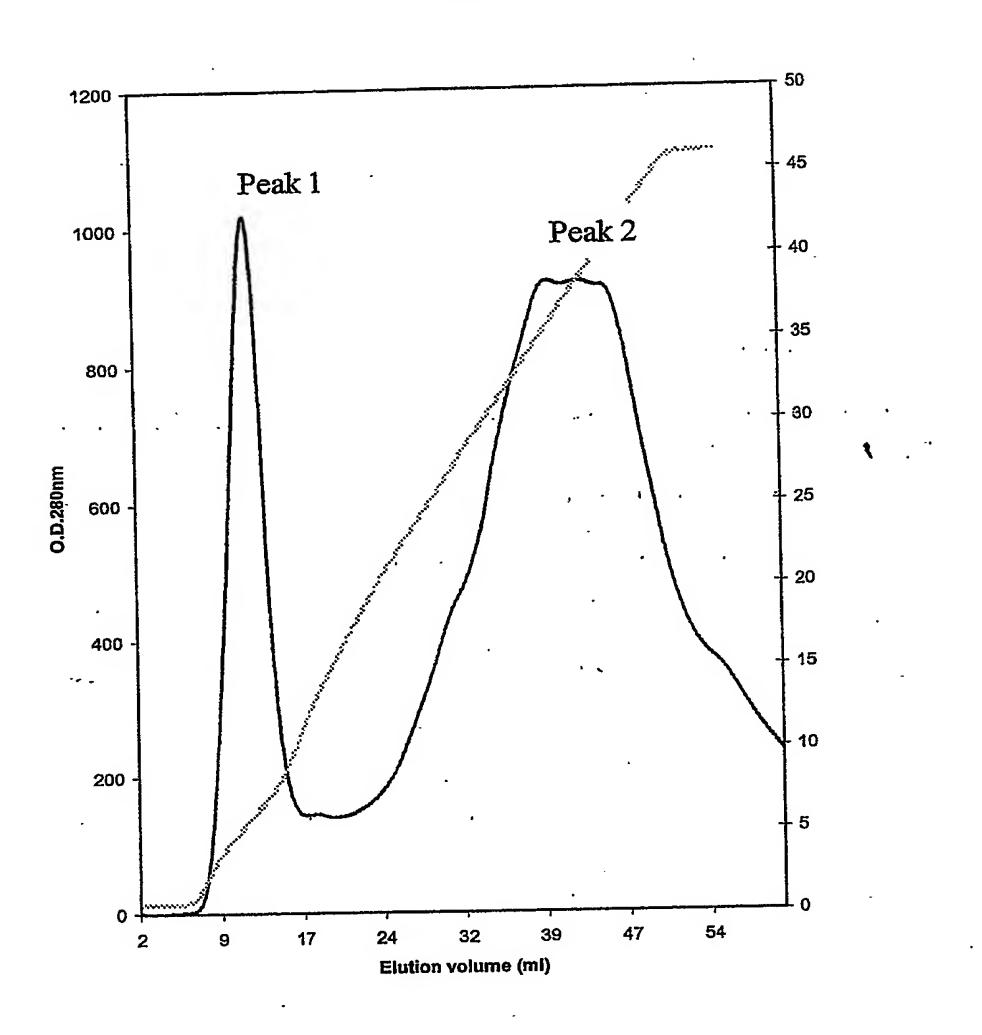
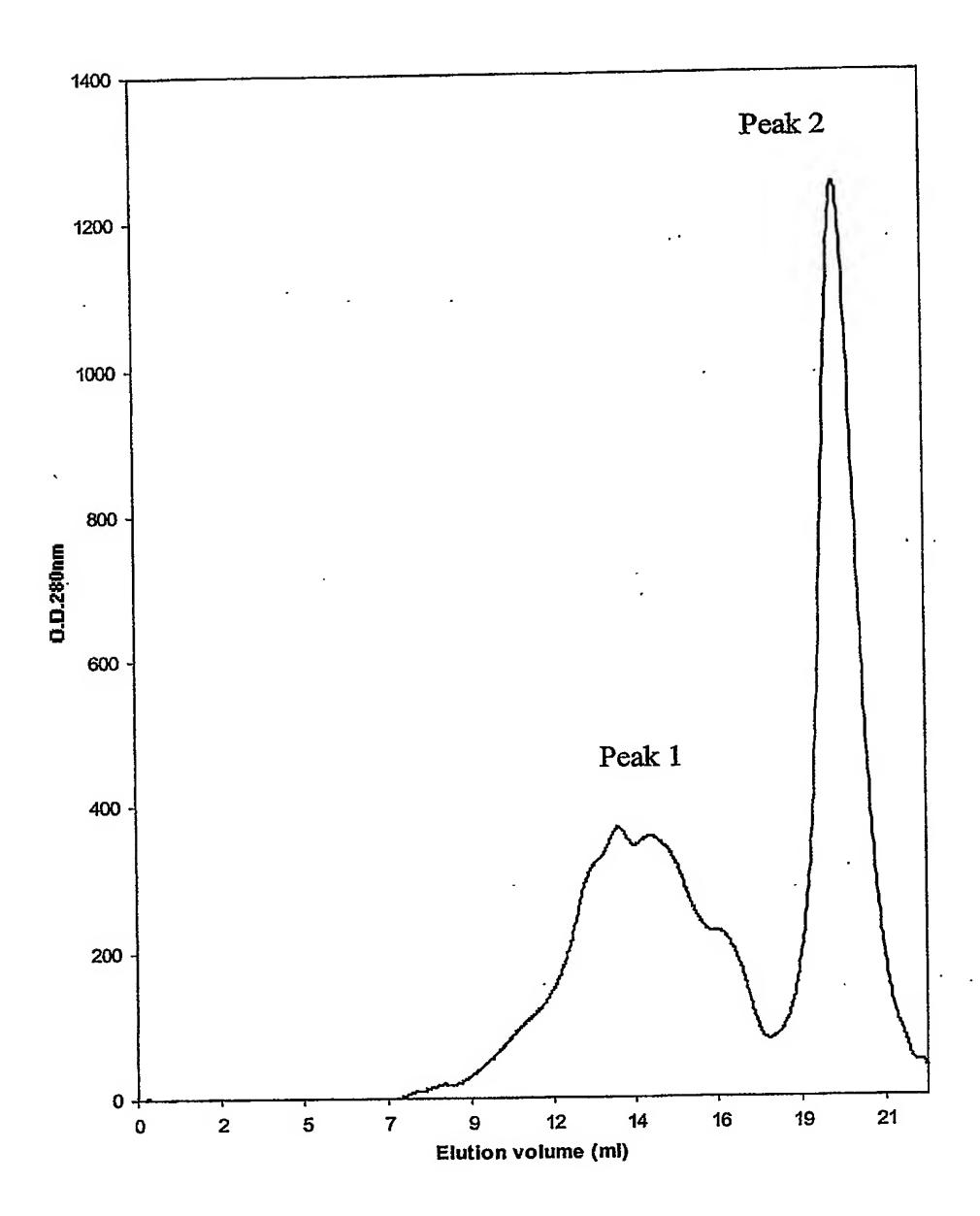


Figure 94

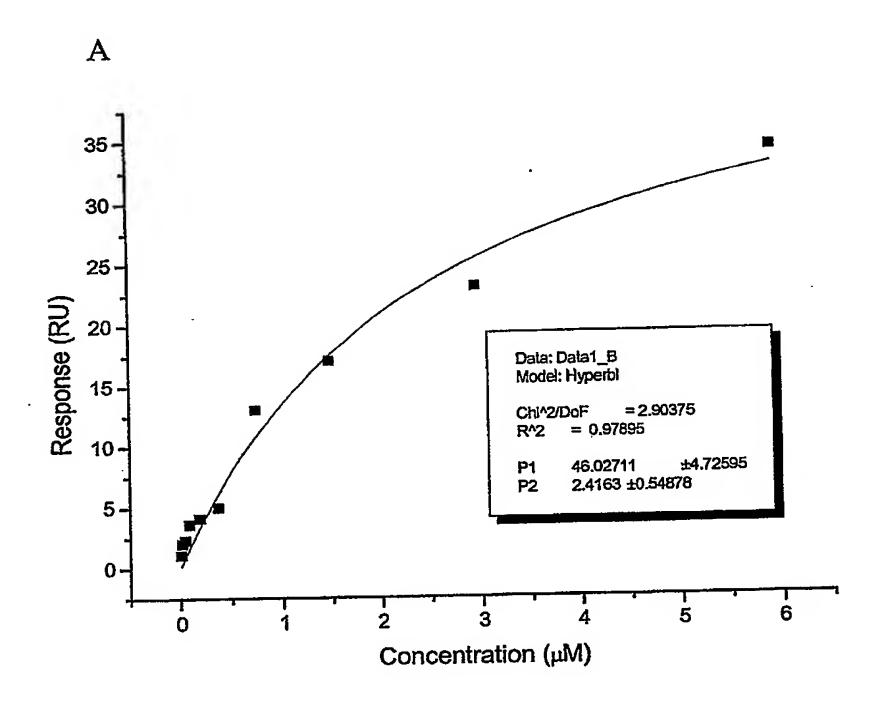
	A. Reducing conditions	B. Non-reducing conditions		
kDa	peak 1 peak 2	kDa	peak 1 peak 2	
50-		£Λ		
37-		50- 37-	ж— , ч <del>и</del>	
25-		25-		
15-		254		
10-	*	15- 10-	**	
		10-		

Figure 95



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Figure 96



В

